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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,619	03/16/2004	Yo-Shen Lin	CMDP0008USA	2618
27765	7590 08/15/2005		EXAMINER	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION			HAM, SEUNGSOOK	
P.O. BOX 506 MERRIFIELD, VA 22116			ART UNIT	PAPER NUMBER
MERRIFICLI	J, VA 22110		2817	
			DATE MAILED: 08/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	4			
Office Action Commence	10/708,619	LIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Seungsook Ham	2817				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence addre	ess			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply ly within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH e, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this commodered (35 U.S.C. § 133).	nunication.			
Status						
1) Responsive to communication(s) filed on 07 J	lulv 2005.					
· -	s action is non-final.					
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under i	Ex parte Quayle, 1935 C.D. 1	1, 453 O.G. 213.				
Disposition of Claims						
 4) Claim(s) 1-4,9-12 and 14 is/are pending in the 4a) Of the above claim(s) is/are withdra 5) Claim(s) 1-4 and 9-12 is/are allowed. 6) Claim(s) 14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	wn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 07 July 2005 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	accepted or b) objected or abeyanced if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR	• •			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. Its have been received in Apporting documents have been received in Apporting the secondary of the secondary is a secondary in the secondary in the secondary is a secondary in the secondary in the secondary in the secondary is a secondary in the secondar	olication No ceived in this National St	age			
Attachmont(a)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Sun	nmary (PTO_413)				
2) Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (PT0-948)		Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Info 6) Other:	mal Patent Application (PTO-1	52)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 14 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification does not provide enough detail such that one skilled in the art would know how to make the invention as recited in claim 14. Although the specification discloses the step of "adjusting a mutual inductance to a designed positive value according to appropriate shapes of inductors", the specification does not describe how the steps, "widening an applicable frequency range of the lumped-element transmission line" and "determining the mutual inductance according to frequency a response of the transmission line" are performed in conjunction with the step, "adjusting a mutual inductance... inductors."

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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In claim 14, "widening an applicable frequency range of the lumped-element transmission line" is vague and indefinite. It should be noted that the term "widening" is a relative term which renders the claim indefinite. The term "widening" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Moreover, "according to frequency a response of the transmission line" is cannot be understood. Is it mean, --according to a frequency response of the lumped-element transmission line--? Furthermore, "adjusting a mutual inductance..." and "determining the mutual inductance..." is confusing as to how one determines the mutual inductance after the step of "adjusting a mutual inductance." It is unclear as to how these steps are related to each other.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al. (US '689), or Tomaru (JP '180) in view of Matsumura et al. (US '686, insofar as understood).

Uchida et al. (figs. 1A-4) discloses a lumped-element transmission line comprising: widening an applicable frequency range of the lumped-element transmission line L1, L2 (col. 11, lines 32-35, "the operational range of the LC filter is

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greatly increased"); adjusting a mutual inductance to a designed positive value (col. 5, lines 44-65); and determining the mutual inductance according to a frequency response of the transmission line (col. 6, line 63 – col. 7, line 11).

Tomaru (figs. 1A-2C) also discloses a lumped-element transmission line comprising: widening an applicable frequency range of the lumped-element transmission line 14, 16 (compared figure 8B, prior art with figures 2B-3B, and paragraphs [0027]-[0030]); adjusting a mutual inductance to a designed positive value (paragraphs [0022]-[0025], see also fig. 1B, the coils 14 and 16 are wounded in a same direction); and determining the mutual inductance according to a frequency response of the transmission line (paragraphs [0027]-[0028]).

Uchida et al. and Tomaru do not show adjusting the mutual inductance by appropriate shapes of inductors. It should be noted that changing the shape of an inductor changes the inductance value.

Matsumura et al. (figs. 1-9D) discloses a lumped-element transmission line having a mutual inductance M (fig. 4). Matsumura et al. (figs 5A-5J and 9A-9D) also teaches that the shapes of the inductors can be varied. It should be noted that the change of the shape of the inductors changes the inductance value, which causes the changes in the mutual inductance.

It would have been obvious to one of ordinary skill in the art to adjust the mutual inductance by providing appropriate shapes of inductors in the device of Uchida et al. or Tomaru to provide a small size filter or to increase Q factor of the device as taught by Matsumura et al. (see abstract).

Allowable Subject Matter

Claims 1-4 and 9-12 are allowed.

Response to Arguments

Applicant's arguments with respect to claim 14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seungsook Ham whose telephone number is (571) 272-2405. The examiner can normally be reached on Monday-Thursday, 8:00AM-5:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571)-272-1769. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Seungsook Ham Primary Examiner Art Unit 2817

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